

Title (en)

APPARATUS, SYSTEM AND METHOD FOR SUSTAINING INDUCTIVELY COUPLED PLASMA

Title (de)

VORRICHTUNG, SYSTEM UND VERFAHREN ZUR AUFRECHTERHALTUNG VON INDUKTIV GEKOPPELTEM PLASMA

Title (fr)

APPAREIL, SYSTÈME ET PROCÉDÉ DE MAINTIEN D'UN PLASMA À COUPLAGE INDUCTIF

Publication

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Application

EP 20194423 A 20200903

Priority

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Abstract (en)

[origin: EP3965139A1] An apparatus and method for igniting and sustaining inductively coupled gaseous plasma in the H-mode with the induction coil placed inside the metallic vacuum chamber is disclosed. The coil is mounted into a double-cup shape housing, preferably constructed from dielectric tubes of co-cylindrical geometry, sealed vacuum-tightly at the side stretching into the metallic vacuum chamber. The outer cylinder of the double-cup shape housing separates vacuum in the metallic chamber from the atmosphere between the two dielectric cylindrical tubes, and the inner cylinder separates inductively coupled plasma in the H-mode inside the vacuum chamber from the atmosphere between the two dielectric cylindrical tubes. The atmosphere between the two cylindrical tubes is typically air at the pressure of about 1 bar.

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